

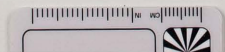
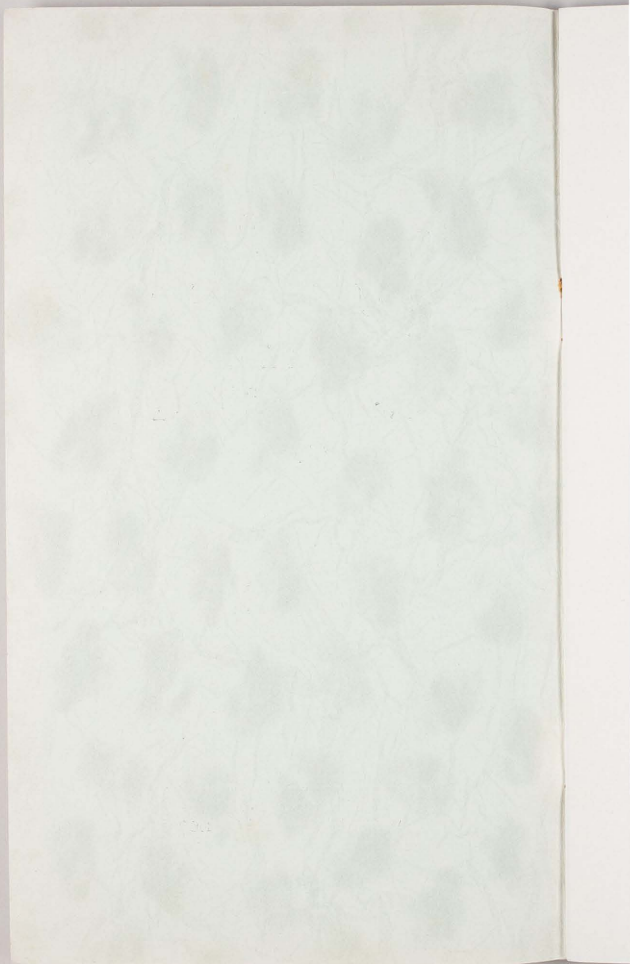
AIM Ann Report
1938 to 1939

ANNUAL REPORT
OF THE
AUCKLAND
INSTITUTE
AND MUSEUM
1938-39



Adopted at the Annual General
Meeting held on 17th May, 1939.

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AUCKLAND
1939.

Staff of the Museum.

Director	GILBERT ARCHHEY, O.B.E., M.A., F.R.S.N.Z.
Hon. Numismatist	J. C. ENTRICAN.
Hon. Curator of English China ..	C. REGINALD FORD, F.R.I.B.A.
Hon. Curator of Oriental Collections	CAPTAIN G. HUMPHREYS- DAVIES.
Hon. Entomologist	W. H. HEMINGWAY.
Hon. Philatelist	VEN. ARCHDEACON W. J. SIMKIN.
Hon. Photographer	J. D. RICHARDSON.
Assistant Director	A. W. B. POWELL.
Botanist	LUCY M. CRANWELL, M.A., F.L.S.
Ethnologist	V. F. FISHER.
Assistant Ethnologist	OLWYN M. RUTHERFORD.
Assistant Zoologist	E. G. TURBOTT, M.Sc.
Associate Geologist	C. W. FIRTH, M.Sc.
Education Officer	R. A. SCOBIE, B.A.
Librarian	M. C. CLELAND.
Bookkeeper and Typist	MURIEL PORTER.
Recorder and Typist	DOROTHY HESSELL.
Mechanic	EDWIN LEECE.
Taxidermist	C. W. DOVER.
Cabinetmaker and Joiner	FRANK QUAYLE.
Custodian	J. L. DAVY, D.C.M.

Attendants:

E. PIERARD, C. RANKEN, J. STEWART, E. W. THOMPSON.

OFFICERS
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
1939-1940

President:

MR. C. R. FORD, F.R.L.B.A.

Vice-Presidents:

SIR CARRICK ROBERTSON, F.R.C.S.

SIR CECIL LEYS.

MR. A. T. PYCROFT.

Council:

HON. T. BLOODWORTH, M.L.C.	MR. A. G. LUNN.
DR. HOLBROOK A. CHATFIELD.	MR. F. CROSSLEY MAPPIN.
MR. J. C. ENTRICAN.	MR. H. C. McCOY.
MR. W. A. FAIRCLOUGH.	MR. J. C. RENNIE.
MR. A. H. JOHNSTONE, K.C.	PROFESSOR H. W. SEGAR, M.A., F.R.S.N.Z.
MR. V. J. LARNER.	MR. E. EARLE VAILE.
SIR CECIL LEYS.	

Representatives of the Auckland City Council:

HIS WORSHIP THE MAYOR,	SIR ERNEST DAVIS.
MISS ELLEN MELVILLE.	DR. R. G. McELROY.
MR. J. W. KEALY.	

Representatives of Local Bodies:

MR. S. W. HOUSE.	MR. A. MACGREGOR.
MR. D. MURDOCH.	

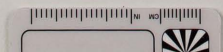
Trust Board:

MR. V. J. LARNER (Chairman).	MR. A. G. LUNN*
MR. E. ANDERSON.	MR. KENNETH B. MYERS
SIR CECIL LEYS.	

Director:

GILBERT ARCHY, O.B.E., M.A., F.R.S.N.Z.

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Reports to Members.

President.

In presenting the 71st Annual Report of the Auckland Institute and Museum it is very gratifying to be able to report a continuation and expansion of all the activities of the Museum. The excellent work of the Director and staff and the many willing persons who give unpaid assistance in the various departments combine to maintain the high standard of the Institute and Museum as one of the vital cultural forces in our community.

Membership.—From a membership of 543 at the beginning of the year we have lost fourteen by death, fifteen by resignation and fifteen names removed. Fifty new members joined, and the present roll is 549, of whom 170 are life members.

Obituary.—During the year we have lost by death many very valued members: Major-General Sir George Richardson, Sir George Wilson, Mrs. Raymond Caughey Preston, Miss K. Edgerley, Messrs. H. J. D. Mahon, G. S. Kent, W. F. Wilson, H. R. Hyatt, J. B. Henry, S. Hesketh, C. H. Holland, C. T. Major, W. N. Coughlan and Dr. J. C. Wadmore. I must refer in particular to the passing of Major-General Sir George Richardson. Sir George Richardson had served on the Council since the year 1932, and his fine personality and readiness for service of all kinds have made his loss very particularly felt.

Council.—Mr. J. C. Rennie and the Hon. T. Bloodworth, previously representing the contributing local bodies, have joined the Council as Institute members. The Council wishes to make cordial acknowledgment of the services of Mr. S. Donaldson, who was for six years a representative of the local bodies. The early years of the Institute were happily recalled in June, when the Council entertained Mr. J. A. Pond on the sixtieth anniversary of his election to the Institute. Mr. Pond, who was President in 1885 and gave many years valuable service as a member of the Council, has, throughout his long membership, always been one of our most active supporters.

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Staff.—Experience abroad has been gained by Mr. Powell, who visited Australia for field work in May; by Miss Cranwell, who was enabled to accept a Bishop Museum research fellowship and joined Dr. C. Skottsberg's expedition to the highland peat swamps of Hawaii; and by Miss Rutherford, who is at present in the Gilbert Islands. Mr. Fisher was granted leave to join a research-display project on art in Oceania at the Buffalo Natural History Museum, and Mr. Archey and Mr. Scobie represented the Museum at the Canberra meeting of the Art Galleries and Museums Association.

We are glad to welcome Captain Humphreys-Davies on his resumption of the Hon. Curatorship of Oriental Art, and Mr. J. D. Richardson, who has accepted the appointment of Hon. Photographer.

The Museum.—The progress maintained in improved display and special exhibitions is indicated in the departmental reports. We are much indebted to Mrs. E. L. Rutherford and Mrs. Christopher Powell for kindly allowing their important Chinese Art collection to remain here for a further two years, and to Captain Humphreys-Davies for arranging an augmented display of his own collection. Our acknowledgments are also due to Mr. E. Earle Vaile, whose continued gifts this year include many valuable early books on New Zealand; to Sir Albert Ellis for a series of Nauru and Ocean Island phosphate specimens, including the historic piece which first revealed the rich deposits available; to Mr. J. R. le B. Tomlin, of England, for his gifts of important early scientific works; and to Captain Collins, of Southern Rhodesia, and Mr. Mappin, for rare Chinese antiquities.

Active public service has been continued by the Sunday afternoon lectures, by the many activities of the school service and by numerous outside lectures by members of the staff. All are part of their endeavour to interpret natural history to the public and to widen interest in and understanding of the arts of mankind. With regard to the latter a question of policy has been considered by the Council—as to whether the ethnographical collections should be extended to include decorative and applied art in general or whether this field should be left to art galleries. The other museums and galleries in the Dominion are co-operating with us in seeking overseas advice on this problem.

It is a pleasure to record the generous support by members of the fund to assist Princess Te Puea in her task of building a fleet of carved war canoes for the centennial celebrations. The fund, which by direct and indirect subscriptions amounted to over £125, was handed to Te Puea at a special meeting held in the Museum library.

Finance.—The apparent slight improvement shown by the statement of Receipts and Payments is not real, for receipts include £125 arrears of interest capitalized by the Mortgage Adjustment Commission (i.e., transferred from our own invested funds to income); moreover, accounts for over £100 due for building maintenance and library books are not included. We are spending more than our income and must either economise (i.e., reduce services) or obtain new revenue. Individual members could assist by securing new supporters; might we not also look for a renewal of those generous monetary bequests and benefactions which encouraged our early decades and laid the foundations for the rich collections and the active cultural services which Auckland now enjoys?

C. REGINALD FORD.

Chairman, Trust Board.

The invested funds now total £30,101, comprising £15,097 Inscribed Stock and Debentures, £14,160 on mortgage, £600 fixed deposit and £244 awaiting investment.

The Mortgage Adjustment Commission has written off £24/2/10 arrears of interest due by two mortgagors and has capitalised £125 arrears in one case; the Commission's further order for progressive repayments of principal will improve the margin of security in these cases.

Inspection has been made of every security during the year, and with only two exceptions they may be regarded as satisfactory.

V. J. LARNER.

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Director.

Institute Meetings.—The Monday evening addresses, delivered by courtesy of the College Council in the University Hall, continue to be well attended. Our cordial acknowledgments for lectures given this year are due to:—

Professor F. P. Worley, M.A., D.Sc.—“The Poor Earth.”

Mr. H. R. Rodwell, M.A.—“The Problem of Immigration into New Zealand.”

Group Captain the Hon. R. A. Cochrane, A.F.C.—“Problems of Aerial Warfare.”

Mr. A. W. B. Powell.—“Marine Life from Across the Tasman.”

Dr. E. J. Cronin.—“Rational Dietetics.”

Professor P. W. Burbidge, M.Sc.—“Rays: In Science and in Life.”

Professor Alexander Findlay.—“Science and the Community.”

Professor Carl Skottsberg.—“Juan Fernandez and Easter Island.”

At the three ordinary meetings papers were given by Professor J. A. Bartrum, Dr. G. B. Palmer and Messrs. A. W. B. Powell, C. A. Fleming, A. D. Mead and G. Archey. Mrs. B. Wilson exhibited her very interesting and beautiful natural colour cinema film, “The Monarch Butterfly.”

Sunday Lectures.—Each year this series of popular lectures emphasizes the need for an adequate lecture hall. The library is constantly filled to capacity and many have to be refused admission; a hall to accommodate 500 people could be filled every Sunday afternoon. We are indebted for last year's series of eleven lectures to:—

Mr. W. H. Hemingway.—“Nine Months among Australian Blacks.”

Mr. M. G. Lee.—“Whaling.”

Mr. E. G. Turbott.—“The Chatham Islands.”

Mrs. F. H. Sagar.—“A South African Journey.”

Dr. G. B. Palmer.—“King Arthur: The Man and His Times.”

Mr. G. Archey.—“Maori Art and History.”

Mr. C. Reginald Ford.—“Pottery and Porcelain.”

Mr. R. A. Scobie.—“Longboats and Galleons.”

Miss O. M. Rutherford.—“Sail in the Pacific.”

Mr. A. W. B. Powell.—“Australian Marine Life.”

Mr. R. D. Campbell.—“Trees of New Zealand.”

Anthropology and Maori Race Section.—Chairman, Mr. G. R. Brookes; Hon. Secretary, Mr. R. A. Scobie.

There are 55 members of the section, which held eight meetings and two field days, one at Mt. Eden and the other at One Tree Hill. The section also visited Princess Te Puea at Ngaruawahia Pa. Papers were given by Mr. Brookes (Chairman's address), Miss Adams, Rev. G. I. Laurensen, Rev. A. H. Voyce, Dr. G. B. Palmer and Messrs. G. Archey, Geo. Graham, M. G. Lee and A. Porter, and abstracts of these papers have been distributed to members.

Astronomical Section.—During the past year seven meetings were held by the Astronomical Section, which at present has a membership of 21. Addresses were given by Mr. S. Mayer, Professor P. W. Burbidge, Dr. D. Brown, Dr. K. Bullen, Mr. I. L. Thomsen and the Rev. Chas. Bush King.

The Observatory building is now in such a dilapidated condition as to necessitate its replacement in the near future. The committee is actively engaged in the matter.

The Section wishes to express its thanks to the University College Council and Professor Burbidge for the use of the telescope.

The Museum.—Public support of the Museum is indicated not only by good attendances, but also by the range and number of specimens presented annually. For the greater part of the accessions only the brief acknowledgment in the printed list can be given; but special reference should be made to important additions to the Chinese collections. These include examples of the earliest Chinese decorated pottery of the Aeneolithic period (c. 3000 B.C.), and of Chou period bronzes and jades, some obtained by purchase and others presented by Captain W. F. Collins, of Southern Rhodesia, Mr. F. C. Mappin, Captain Humphreys-Davies, and Mr. A. G. Lunn. We have also to thank Mr. Harold I. Harding for domestic articles from Chinese Turkestan and North Burma; Mr. F. L. Armitage and Mr. J. D. Richardson for extensive collections of lantern slides; Messrs. A. Kohn Ltd. for specimens of Lalique glass, and Mr. S. Ronaldson for saving untouched some moa specimens found in a cave and, in due course, helping to excavate them.

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The staff cordially welcomes this encouraging stream of accessions, notwithstanding the considerable time that has to be devoted to their registration, conditioning and classification before they can be used for study and display. This work and much other routine activity have been expedited this year by assistance provided by the Employment Bureau. Two major tasks undertaken by this assistance have been a stocktaking and overhaul of the ethnographical and art collections under Mr. Stevenson's supervision, and the re-laying of the ground floor linoleum, which had lifted through damp. Mr. Quayle is carrying out and supervising this work, four-fifths of which has been done; the linoleum and cement have been provided from the Building Maintenance Reserve. New ventilator screens, cut by Mr. Leece and fitted by Mr. Stewart, will obviate the nuisance of nesting sparrows.

Display.—Twenty-eight new displays and rearrangements have been completed. They include nine Maori and ethnographical cases by Miss Rutherford, i.e., stone carving, greenstone adzes, agriculture (2), food resources, fowling, cloaks, Maori and Pakeha, and Micronesian Atoll culture; negroid art in Africa and Melanesia by Mr. Stevenson; local geology, Cretaceous and Tertiary periods, and volcanoes by Mr. Firth; terns and gulls, oceanic petrels and albinos by Mr. Turbott and Mr. Dover; and juvenile plant-forms and hybrids, and plant nutrition by Miss Cranwell. Miss Laura Mappin has kindly rearranged seven cases of European porcelain, and Mr. Hemingway has completed an installation of 27 new units depicting insect life, and a case demonstrating insect life-history and classification.

The Museum also set up three special exhibits at the Auckland Winter Show.

Each display is an attempt to interpret some definite phase of natural history, ethnology or art rather than just to show specimens; at the same time an endeavour is made to achieve a degree of unity and harmony by grouping the specimens before backgrounds of appropriate materials and colours. The Carnegie Corporation grant for this special work has given much appreciated freedom for experiment with a variety of materials and arrangements whereby we gain useful experience, sometimes from failure as well as from success.

Through the courtesy of the Otago Museum we had the pleasure of exhibiting that great rarity, the *takahe* (*Notornis*); the only specimen in New Zealand of this possibly extinct bird.

Exhibitions.—In a special exhibition of Natural History Illustrations and their Reproductions Mr. Powell displayed many drawings and paintings, and illustrated, by engravings, lithographs and process blocks, as well as by fine examples of colour plates, the methods of printing them. The exhibition was opened by the President at an evening gathering to which the members of the contributing Local Bodies were invited. On this occasion the Cheeseman Memorial Prizes and the flower show awards were presented to the winners by Lady Robertson.

The successful organization of this year's Cheeseman Native Spring Flower Show by the Auckland Botanical Society, itself an outgrowth of the Botanical department was, we hope, a happy precedent for other organizations, whose interests run with ours, to hold exhibitions in the Museum and to use our facilities and resources in developing their scientific, educational and cultural activities.

Education.—The educational service, hitherto comprising only the distribution of loan cases to schools, Sunday afternoon lectures and willing extra activities by staff members in organizing junior clubs, has now been expanded to a full department. The comprehensive school service organized by Mr. Scobie, whose appointment as Education Officer was made possible by the Carnegie Corporation grant subsidized by the Government, is described in his report. A silent commentary, no, not altogether silent! on its influence was School Sports Day, usually a harrassing day of noise in the Museum, but this year much quieter. The children, having been shown by Mr. Scobie's talks and by "hunt the answer" competitions how much of interest there is in the show cases, now run about much less and look longer.

Improved displays have undoubtedly contributed to this, but the best possible arrangement may fail to catch everyone's attention because it needs to be read or followed right through, thus demanding an effort of continuous attention. The services of a Guide Lecturer for adults whose spoken word would direct and hold visitors' attention would be a valuable supplement to our educational activities.

General.—During Miss Cranwell's absence in Hawaii, Miss B. Molesworth successfully administered the Botany department and Mr. A. G. Stevenson has assisted in the Ethnology department since Mr. Fisher went to the United States. Mr. M. Holds-

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worth, attendant, resigned in August, and the custodian, Mr. W. Hawke, will retire in April. We regret to record the death of Mr. E. Purdom, who was an attendant from 1929 to 1935.

The reserve and study collections are being maintained in good order, but lack of storage space and research rooms is proving a great handicap, particularly in the botany department. The need for a lecture hall and school class rooms has already been mentioned, and a building extension to include these requirements is becoming an urgent necessity.

Opportunities for extended activities or for the acquisition of specimens outside our present interests occasionally arise, but they frequently have to be let pass by because of lack of funds or of space. All the same, we have a responsibility to future museums which Auckland may in time establish, i.e., to a technological museum or one of applied art, for which specimens must be obtained now, if ever. In the meantime, however, our own restricted spheres of activity require all the available space, and more, for their proper development.

GILBERT ARCHEY.

Assistant Director.

The past year has been one of consolidation—no new displays were prepared, the time having been devoted largely to the maintenance of the reference collections, in identifying, labelling, cataloguing and filing the extensive molluscan and palaeontological material acquired during recent years. This work was greatly facilitated by the services of a temporary assistant secured through the courtesy of the Employment Bureau. Over 9,000 lots of specimens have been permanently labelled and are now incorporated for reference in the general collection of Recent and fossil mollusca.

An endeavour has been made also to maintain an index of Molluscan Systematics, this now comprising over 2,300 foolscap sheets. In addition, 1,450 natural history photographic negatives and over 1,000 slides have been indexed. Thus the resources of the department have been co-ordinated, greatly facilitating routine identifications as well as providing all the essentials for research.

At the conclusion of eleven months' administrative duties during the Director's absence abroad, I was granted six weeks' leave of

absence, which was spent in Australia visiting museums and in collecting natural history specimens in Queensland, New South Wales and Victoria. The facilities afforded by Australian libraries enabled me to compile over 300 pages of notes mainly in connection with a report in preparation on the Discovery II. Antarctic collections.

On November 10th a special exhibition, "Natural History Illustrations and Their Reproduction," was opened.

Nine lectures were given during the year. Also the "Auckland Museum Conchology Club," now in its ninth year, has been conducted, as in previous years, in the form of evening meetings at the Museum and field days on suitable Saturdays. The club now has an associate membership extending throughout New Zealand and in Australia, and is building up its own reference library.

Five papers have been published during the year:—

"The Paryphantidae of New Zealand, No. 4, and the Genus *Placostylus* in New Zealand."

"A New *Cleidopus* and Four Other Fishes New to New Zealand."

"A Pliocene Molluscan Faunule from Castle Point."

"Additions to the Recent Molluscan Fauna of New Zealand." (Rec. Auckland Inst. & Mus.)

"Tertiary Molluscan Faunules from the Waitemata Beds." (Trans. Royal Soc. N.Z.)

Also a paper, "Note on the Importance of Recent Animal Ecology as a Basis of Paleoecology," has been prepared for the Sixth Pacific Science Congress to be held at San Francisco in August.

The fish collections were augmented by a number of unusual specimens, the most important being a new species of Pine-cone fish, *Cleidopus*, from Gisborne, presented by Mr. L. G. Spiller; *Chelmonops howensis*, from Poor Knights Islands, presented by Mr. W. M. Fraser; and *Aleuternus monoceros*, from 35 fathoms off Great Exhibition Bay, presented by Captain F. Vela, the latter two making new records for our fauna.

In mollusca several important lots of Papuan and Mandated Territory of New Guinea land snails were presented by Messrs. B. W. Collins, M. Ongley and H. Wellman, and an outstanding palaeontological accession was a well preserved fossil skull of a mid Tertiary fur seal, *Arctocephalus caninus*, from Ohope, Bay of Plenty, presented by Mr. C. McCready.

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A valuable addition to the library of molluscan literature is the advance consignment of books and pamphlets donated by Mr. J. R. le B. Tomlin, of Sussex, sent as a goodwill gesture in respect to his intention to bequeath the whole of his natural history library to this museum.

Enquiries for the year exceeded 1,000. Weekly nature articles in a local paper stimulated much interest, as evidenced by numerous letters and telephone calls. Incidentally, several important specimens were obtained through these correspondents.

A. W. B. POWELL.

Education Officer.

The educational facilities of the Museum continue to draw large numbers of the public, both young and old. Visits have been made by 205 school classes, comprising 8,266 children, for talks, demonstrations, lantern and cinema screenings, information-games and the examination and handling of material. Thirty-eight school cases were circulated fortnightly among 56 schools in town and country, and frequent use has been made by teachers of loan material.

Through the continued interest and help of the Principal, Mr. D. M. Rae, close association has been maintained with the Teachers' Training College. Lectures have been given to the students at the College and in the Museum, and 25 students have come to the Museum in groups for instruction and to participate in the class work. A cultural group also attended regularly, following up a diversity of interests.

Special classes were arranged for the Blind Institute pupils, and lectures were given to several educational institutions and clubs. A series of Saturday morning pictures was popular to the extent of so overtaxing the accommodation that even "repeat" performances could not meet the situation. Such occasions, and the fact that over 4,000 children and adults were provided for apart from the school classes, emphasize the need for a lecture hall.

The Boys' Club has continued its activities, and some older members, now University students, have formed a Maori Ethnological Research Group. Mr. Powell's Conchology Club has 30 members and 30 associates, whose interest is indicated by high attendances at lectures and excursions.

Co-operation with other institutions has included lectures given by staff members, the supplying of loan material and lantern slides, and by placing the films produced by the Museum at the disposal of the Visual Education Association.

The Carnegie Corporation Committee's gift of a film-strip projector has been most helpful, and we are co-operating with the Association in the preparation of films. The Educational Broadcasting Service utilised the services of the Education Officer, and a section on Maori history and art was contributed to a Technical School's text book.

While a high standard of work was set by the entrants of the Cheeseman Memorial Prize Competition, the entries were not particularly numerous. On the other hand, the enthusiasm of the public for the Native Flower Show seems almost boundless. The members of the staff have co-operated in every possible way with the activities of the department.

R. A. SCOBIE.

Botanist.

From May to October Miss B. Molesworth took charge of the department while the botanist took up a Bishop Museum Fellowship for research in the Hawaiian Islands, under the direction of Professor C. Skottsberg.

Mounting and sorting of herbarium accessions of the last ten years has been completed, and this collection is now accessible to students. Two Native Plant Tables were maintained, by the co-operation of the Auckland Botanical Society, which ended its first year with the organisation of the 7th Cheeseman Memorial Show of Native Flowers. Thanks for this service to the Museum are due particularly to the secretary, Miss Molesworth, to Miss Katie Pickmere, to Mr. J. E. Attwood, of Raetihi, and to Dr. C. H. Tewsley and his committee.

In the display halls three cases have been repapered and re-arranged. A two-panel arrangement was attempted to illustrate plant nutrition, while a third summarises the growing complexity of the plant body from the free swimming organism to the flowering plant. Wax models and bright airbrush sketches by Miss J. Harrison-Smith were used here.

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As a result of the Hawaiian visit, peat samples were obtained from the bogs by boring, and large collections of native plants were prepared. A duplicate set will be forwarded to this museum when the whole has been checked by Professor Skottsberg. Thanks to assistance from Dr. Peter Buck, most of the time was spent in the mountains, bearers and guides being provided by ranch and plantation owners, or by the Forestry Department. Miss Marie Neal, Mr. E. Bryan, Junr., and Mr. E. Hosaka, of Bishop Museum staff, the Hon. Albert Judd and Mr. George Munro, Honolulu; Mr. and Mrs. Philip Rice, Kauai; Mr. D. Fleming, W. Maui; Mr. H. Carter, Hawaii; and Mr. and Mrs. Geo. Cooke, Molokai, gave most valuable local assistance, and thanks are offered as well to Mr. Olof Selling and Professor Skottsberg for their direction of the survey along Swedish research lines.

One lecture was given: "Xeronema, Our Rarest Lily" (Auck. Bot. Soc.)

Two papers were published separately:—

"New Plant Records from the Poor Knights Islands." Rec. Auck. Mus., Vol. 2, No. 2, pp. 101-110, 1937.

"Fossil Pollens: the Key to the Vegetation of the Past." N.Z. Journ. Sci. & Tech., Vol. XIX., No. 10, pp. 628-655, 1938.

And two others with Miss L. B. Moore, M.Sc.:—

"Intertidal Communities of the Poor Knights Islands, N.Z." Trans. Roy. Soc. N.Z., Vol. 67, pp. 375-407, 1938.

"Xeronema: an Island Lily." N.Z. Journ. Hort. Cockayne Memorial No.

LUCY M. CRANWELL.

Assistant Ethnologist.

The display experiments in the Maori section have been directed towards setting up exhibits in which a few significant specimens have been arranged to illustrate some particular phase of Maori life, and at the same time appropriate backgrounds and fittings have been chosen in harmony with the specimens and the theme. Greenstone (its use to the Maori and his difficulties in obtaining it from an isolated region) was the subject of a general case comprising 87 specimens.

Another display illustrated Maori agriculture, with a supplementary case showing type varieties of agricultural implements. A third case dealt with Maori food resources and their exploitation. Altogether nine cases were completed, the last being Atoll Culture of the Gilbert Islands, in which material from the Maude Collection was utilized.

Field work in Melanesia has occupied the last month.

OLWYN M. RUTHERFORD.

Assistant Zoologist.

In new displays, of terns and gulls and of albatrosses and petrels, a formal arrangement against a uniform background with a rock or sand base has given a satisfactory result, and the same principle has been employed in a case to illustrate albinism among introduced birds, and in a display of the phosphatic rock and products from Ocean Island and Nauru presented by Sir Albert Ellis. Rearrangements have been made in the birds of paradise and the pheasant habitat group, and two school cases illustrating introduced finches have been completed by Mr. Dover.

Five public lectures and film commentaries have been given, and the many questions answered have included information supplied to the City Council in connection with a proposed rat campaign, notes on native birds for newspaper use and the identification of termites infesting houses. Naturalist badge tests for guides and scouts have been conducted.

Field trips have been made to the Waitakere Hills, the West Coast and the Hauraki Gulf, and, for study of the native frog, to Coromandel.

The usual routine work has been necessary to maintain the collections in good order and to register accessions, most of which have been storm-driven sea birds retained by permission of the Minister of Internal Affairs.

E. G. TURBOTT.

Associate Geologist.

Activities during the year have been mainly directed towards a group of displays illustrating New Zealand's Late Cretaceous and Tertiary geology. Two introductory panels have been arranged, but completion has been delayed because of the lack of necessary specimens in the collections. A collecting trip through the North Island has made good the major deficiencies, and representative specimens are now available to illustrate the sequences of Tertiary and associated strata developed throughout the South Auckland-Taranaki-Wanganui and the Hawke's Bay-East Cape districts. They will be arranged to show their natural order of occurrence and to demonstrate the significant events in this most interesting period of our geological history.

Additional descriptive details have been added to the Local Geology display; over 50 requests for identifications of rocks and minerals have been dealt with, and some 90 additional specimens have been added to the collections.

C. W. FIRTH.

Library.

The expenditure during the past year is £182/19/6, made up as follows: Purchase of Books, £69/19/3; Subscriptions to Periodicals, £82/11/5; Binding and Sundries, £30/8/10.

This year has been a most fortunate one regarding donations, a list of which is given in the Appendix. Special mention must be made of the very valuable and important gift by Mr. E. E. Vaile comprising 96 volumes of New Zealand literature and a complete set of the Polynesian Journal; also of the rare early books on systematic zoology and natural history presented by Mr. J. R. le B. Tomlin, of England. Such gifts are not only important additions to the library, but are also appreciated by members and the staff as invaluable aids in their studies and investigations. By purchase and gifts 329 volumes have been added to the library.

The magazine and serial publications subscribed to by the Institute continue to arrive regularly. A list of them will be found on the next page.

MARSHALL C. CLELAND.

The following
Periodicals and Publications of Societies

are subscribed to by the Institute:

NATURE.
DISCOVERY.
SCIENCE PROGRESS.
REPORT OF THE BRITISH ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE.
TRANSACTIONS AND PROCEEDINGS OF THE ROYAL
SOCIETY.
COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES
SCIENCES.
NEW ZEALAND JOURNAL OF SCIENCE AND TECHNOLOGY.
THE MUSEUMS JOURNAL.
THE PHILOSOPHICAL MAGAZINE.
THE AMERICAN JOURNAL OF SCIENCE.
THE PHYSICAL REVIEW.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL
SOCIETY.
JOURNAL OF THE CHEMICAL SOCIETY.
ARCHIV DER PHARMAZIE.
CHEMICAL REVIEWS.
MONATSHEFTE FUR CHEMIE.
THE INDUSTRIAL CHEMIST.
THE GEOLOGICAL MAGAZINE.
QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY.
THE GEOGRAPHICAL JOURNAL.
ANNALS AND MAGAZINE OF NATURAL HISTORY.
ANNALS OF BOTANY.
JOURNAL OF BOTANY.
DAS PFLANZENREICH.
TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL
SOCIETY.
THE ZOOLOGICAL RECORD.
PUBLICATIONS OF THE RAY SOCIETY.
THE IBIS.
MAN.
JOURNAL OF THE ROYAL ANTHROPOLOGICAL INSTITUTE.
ANTIQUITY.
JOURNAL OF EGYPTIAN ARCHAEOLOGY.
OCEANIA.
JOURNAL OF THE POLYNESIAN SOCIETY.
TE WANANGA.
ART IN NEW ZEALAND.
MIND.
THE ECONOMIC JOURNAL.
THE ECONOMIC RECORD.
JOURNAL OF THE STATISTICAL SOCIETY.
QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL
SOCIETY.
THE JOURNAL OF ECOLOGY.
MANKIND.
COUNTRY SIDE.
THE GEOGRAPHICAL MAGAZINE.

The Auckland Institute and Museum is an educational institution which gives free service to the whole community throughout the year.

Money is urgently needed to widen its activities and increase its service to the community by the spread of knowledge among present and future citizens.

If additional help cannot be given now, a bequest would be of great value.

Form of Bequest.

I give and bequeath to the Institution known as the Auckland Institute and Museum the sum of £..... free of succession or estate duty to be applicable for the general purposes of such Institution. And I declare that the receipt of the Treasurer or the proper officer for the time being of such Institution shall be a sufficient discharge for the same.

AUCKLAND INSTITUTE AND MUSEUM.

RECEIPTS AND PAYMENTS ACCOUNT

For the Year Ended 31st March, 1939.

	£	s.	d.		£	s.	d.
To Balance, 1st, April, 1938	822	13	10	By Salaries and Wages	5,714	16	7
" Subscriptions	350	14	0	" Insurance	44	3	7
" Subscriptions in Advance	10	10	0	" Library Expenses	183	5	11
" Life Members	63	0	0	" Institute Expenses	150	12	5
" Interest—				" Specimens—			
Mortgage	882	13	7	Purchase	232	9	8
Debenture	448	8	5	Collecting and Travelling Expenses	214	13	7
Inscribed Stock	137	9	0	" Preserving and Display	163	6	4
Auckland Savings Bank	4	1	8	" School Services, Publications	204	1	10
" Contributions from Local Bodies	5,700	0	0	" General Maintenance	531	5	7
" Sundry Receipts	51	13	2	" Buildings—			
" Donations	150	1	6	Maintenance	152	1	0
" Contributions Specimen Purchase	68	7	9	" Sundry Expenses	44	19	5
" Contributions Shrine Account	34	12	9	" Show Cases and Furniture	135	15	10
" Receiver Land Revenue—				" Auckland Museum Maintenance Amendment Act, 1931 (Sec. 37)—			
Sales	142	15	6	Wreaths	4	4	0
Rent	44	19	2	Entertainment	12	17	1
" Mortgage—Reduction of Principal	102	10	0	" Transfers—			
" Carnegie Grant	177	1	0	Investment Account	102	10	0
" Princess Te Puea Canoe Fund	104	4	6	Life Subscription Account	63	0	0
" Wages Subsidy (Employment Bureau)	644	1	8	Specimen Purchase	68	7	9
				Shrine Account	34	12	9
				Museum Endowment Account	142	15	6
				Building Reserve	44	0	0
				Princess Te Puea Canoe Fund	104	4	6
				Subsidised Wages	717	8	4
				" Balance, 31st March, 1939	874	5	10
	£9,939	17	6		£9,939	17	6

INCOME AND EXPENDITURE ACCOUNT.

For Year Ended 31st March, 1939.

EXPENDITURE.				INCOME.			
		£	s. d.			£	s. d.
To Salaries		5,714	16 7	By Subscriptions		429	19 6
" Insurance		44	3 7	" Life Members		63	0 0
" General Maintenance		531	5 7	" Interest Mortgages and Debentures		1,303	2 9
" School Service and Publications		204	1 10	" Memorial Hall and Specimens Purchase		103	0 6
" Institute Expenses		150	12 5	" Contributions from Local Bodies		5,700	0 0
" Auckland Museum Maintenance Amendment Act, 1931 (Sec. 37)		16	0 1	" Donations		150	6 6
" Sundries		47	2 7	" Sundry Receipts		51	13 2
" Building Maintenance		212	10 1	" Auckland Savings Bank		4	1 8
" Subscriptions Written Off		90	6 0	" Rent R.L.R.		44	19 2
" Interest Written Off		24	2 10	" Sales R.L.R.		142	15 6
" Transfers—				" Carnegie Grant		177	1 0
Life Subscription Capital Account		63	0 0	" Balance		958	17 6
Memorial Hall Trust Fund		68	7 9				
Specimen Purchase		34	12 9				
Museum Endowment Account		142	15 6				
Building Reserve		44	0 0				
" Depreciation Building		1,074	0 10				
" Depreciation Furniture		666	14 0				
		£9,128	12 5			£9,128	12 5

MUSEUM ENDOWMENT ACCOUNT.

	£	s. d.	£	s. d.		£	s. d.	£	s. d.
To Balance 31/3/39—					By Balance 1/4/38—				
Investments	13,763	12 0			Investments	13,728	12 0		
Cash at Bank	162	19 0			Cash at Bank	55	3 6		
	13,926	11 0				13,783	15 6		
Less Reserve for Depreciation	271	5 5	13,655	5 7	Add R.L.R. Sales	142	15 6		
						13,926	11 0		
					Less Reserve for Depreciation	271	5 5	13,655	5 7
								£13,655	5 7
			£13,655	5 7					

LIFE MEMBERS' SUBSCRIPTION ACCOUNT.

£ s. d.					£ s. d.					£ s. d.				
To Balance 31/3/39—						By Balance 1/4/38—								
Investments	..	..	..	..	2,143	Investments	..	..	..	2,056	0	0		
Cash at Bank	..	..	..	..	354	Cash at Bank	..	..	..	378	11	5		
													2,434	11 5
						.. Transfer from Income and Expendi-							63	0 0
						.. ture Account								
					£2,497								£2,497	11 5

ACCUMULATING ENDOWMENT ACCOUNT.

£ s. d.					£ s. d.				
March 31st, 1939—					April 1st, 1938—				
To Balance	327	7	11		By Balance	318	8	7	
					March 31st, 1939—				
					By Interest		8	19	4
	£327	7	11						£327 7 11

MACKECHNIE BEQUEST ACCOUNT.

£ s. d.					£ s. d.				
March 31st, 1939—					April 1st, 1938—				
To Balance	14	1	9		By Balance	13	13	11	
					March 31st, 1939—				
					By Interest			7	10
	£14	1	9						£14 1 9

SIR JAMES GUNSON TRUST ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1939—				April 1st, 1938—			
To Balance	193	0	5	By Balance	187	8	2
				March 31st, 1939—			
				By Interest	5	12	3
	£193	0	5		£193	0	5

MEMORIAL HALL TRUST FUND.

	£	s.	d.		£	s.	d.
March 31st, 1939—				April 1st, 1938—			
To Balance	318	2	2	By Balance	277	9	5
				March 31st, 1939—			
				By Transfer	34	12	9
				„ Interest	6	0	0
	£318	2	2		£318	2	2

SPECIMEN PURCHASE FUND.

	£	s.	d.		£	s.	d.
March 31st, 1939—				April 1st, 1938—			
To Balance	575	11	10	By Balance	501	4	1
				March 31st, 1939—			
				By Transfer from Sundry Receipts	68	7	9
				„ Interest	6	0	0
	£575	11	10		£575	11	10

AUCKLAND INSTITUTE AND MUSEUM.

BALANCE SHEET as at 31st March, 1939.

LIABILITIES.				ASSETS.			
	£	s.	d.		£	s.	d.
Capital Account—				Buildings—			
Property as at 31/3/1929—				1st April, 1938	214,808	0	11
Buildings	221,588	0	3	Less Depreciation	1,074	0	10
Library	5,000	0	0		213,734	0	1
Furniture	22,384	2	0	Furniture and Fittings—			
Specimens	150,136	12	11	1st April, 1938	26,532	19	6
			399,108 15 2	Additions	135	15	10
Endowments—					26,668	15	4
Costley Bequest	7,700	0	0	Less Depreciation	666	14	0
Mackechnie Bequest	2,000	0	0		26,002	1	4
Campbell Bequest	1,000	0	0	Collections—			
Herries Bequest	1,000	0	0	1st April, 1938	156,683	15	1
Shaw Bequest	1,000	0	0	Additions	594	11	3
Nathan Bequest	100	0	0		157,278	6	4
Marshall Bequest	550	0	0	Library Books—			
Museum Endowment	13,655	5	7	1st April, 1938	8,161	3	10
Life Members' Subscriptions	2,497	11	5	Additions	229	15	6
			29,502 17 0		8,390	19	4
General Account			9,770 19 2	Investments—			
			438,382 11 4	Mortgages	14,160	0	0
Reserves—				Debentures	3,281	0	0
Mackechnie Library Fund	14	1	9	N.Z. Inscribed Stock	3,833	12	0
Accumulating Endowment Reserve				Australian Commonwealth Stock	1,982	10	0
Fund (and Ambury Bequest)	327	7	11		29,257	2	0
Gunson Specimen Reserve Fund	193	0	5	Sundry Debtors—			
Mitchelson Prize Fund	56	16	1	Interest	255	18	1
Memorial Hall Trust Fund	318	2	2	Subscriptions	106	1	0
Specimens Purchase Reserve Fund	575	11	10	Employment Bureau	73	6	8
Building Maintenance Reserve	1,416	12	11		435	5	9
			2,901 13 1	Cash—			
Reserve for Depreciation of Investment			271 5 5	Bank of New Zealand	577	2	6
Sundry Creditors—				Post Office Savings Bank	1,329	16	1
On Open Account	124	10	4	Auckland Savings Bank Accounts	1,784	10	9
Subscriptions in Advance	10	10	0	Fixed Deposit B.N.Z.	600	0	0
			135 0 4	Cash in Hand	1	10	0
					4,292	19	4
			£441,690 10 2	Income and Expenditure Account—			
				Balance 31/3/39	958	17	8
				Plus Balance 1/4/38	1,340	18	4
					2,299	16	0
					£441,690	10	2

GILBERT ARCHIEY, Treasurer.

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List of Benefactions
made to the
Auckland Institute and Museum
of an amount (or value) exceeding £50.

MONETARY GIFTS.

- 1876 Auckland Citizens: £2,026 subscribed towards first building.
1878 Mr. J. C. Firth donated £106 for show cases.
1884 Mr. Edw. Costley bequeathed £12,150.
1887 Mr. David Nathan bequeathed £100.
1897 Mr. T. Russell donated £100 for geological specimens.
1901 Auckland Citizens subscribed £1,000 for Mair Collection.
1902 Mr. E. A. Mackechnie bequeathed £2,500.
1906 Auckland Citizens subscribed £662 for carved houses.
1911 Auckland Citizens subscribed £684 for ancient carvings.
1913 Sir John Logan Campbell bequeathed £1,000.
1921 Institute Members subscribed £115 for Temple Bronzes.
1923 Sir Wm. H. Herries bequeathed £1,000.
1924 Citizens subscribed £698 for Maori collections.
1925 Institute Members subscribed £100 for Maori collection.
1926 Sir James Gunson Presentation Committee presented £118 for Maori collection. Mr. David Goldie bequeathed £1,000.
1927 Mr. F. Shaw bequeathed £1,000.
1929 Mr. S. J. Ambury bequeathed £250.
1934 Mrs. R. M. Wilson: £50/10/-, given to establish the Sir Edwin Mitchelson Prize Fund.

SPECIMENS AND BOOKS.

- 1876 Mr. R. C. Barstow: Large collection of Maori articles.
1877 Mr. G. F. Edmonston: 564 volumes of scientific works.
1878 Mr. T. Russell, C.M.G.: 34 casts from the antique.
1878-83 Mr. J. T. MacKelvie: 390 books and ethnology collection.
1887 Mr. C. O. Davis: Valuable Maori collection.
1901 Mr. L. D. Nathan: Japanese Shinto Shrine.
1913 Mr. Henry Shaw and Mr. F. Shaw: 172 scientific books. Hon. Sir Edwin Mitchelson: Valuable Kauri Gum collection.

- 1915 Dr. C. E. R. Bucknill: Collection of Old English Glass.
- 1916 Mr. Henry Shaw: Collection of Japanese art.
- 1917 Miss Ruth Northcroft: Large Maori and Polynesian Collection
- 1919 The Misses Yates: Collection of Indian weapons.
- 1920 Mr. James Dunning: Collection of North American Mammals.
- 1921 Mr. W. A. Aldred: Valuable collection of Maori specimens.
Hon. J. B. Turner: Important Fijian ethnographical collection.
- 1923 Mr. T. F. Cheeseman, F.L.S., F.N.Z.Inst.: The Cheeseman Herbarium of native and foreign plants.
- 1924 Mr. Wm. Sutherland: Melanesian ethnographical collection.
Mr. A. C. Caughey: Fijian and New Hebridean ethnographical collection.
Mr. R. A. Meek: Ethnographical specimens from Bismarck Group. Messrs. Samuel Vaile & Sons: Large collection of Maori greenstone articles. Sir Cecil Leys and Mrs. Selwyn Upton: The Edge-Partington ethnographical collection of over 2,000 specimens, given in memory of their father, Dr. T. W. Leys.
- 1925 Mr. F. Crossley Mappin: Valuable Maori and South Pacific exhibits.
- 1926 Mr. Geo. F. Webster: Valuable Maori antiquities.
Mr. H. R. Butcher: Collection of British coins.
Mrs. E. M. Ball: The Thos. Ball Zoological collection.
Mr. F. Crossley Mappin: Ancient Chinese ceramic specimens.
Mr. Hallyburton Johnstone: Silver cup presented by Queen Victoria in 1878 to the Royal George Yacht Club.
- 1927 Mr. F. Crossley Mappin: Valuable Maori carvings.
Mr. Moss Davis: Valuable ethnographical specimens.
- 1928 Sir Cecil Leys and Mrs. Selwyn Upton: Unique and richly carved feather box.
Mr. J. R. Adams Wilkes: Ethnographical collections from Nigeria and New Guinea.
Mr. Harry Kinder: The Dr. Kinder Collection—Maori and Melanesian.
Mr. E. Earle Vaile: Important collection of Maori stone carvings and collection of Eastern ethnographical specimens.
Mrs. S. J. Lushington: Large collection of mollusca.
- 1929 Mr. T. H. Barstow: Maori canoe prows and stern posts.
Mr. W. R. McGregor: New Ireland carved memorial figures.
Mrs., Miss and Mr. A. N. Cooper: The Charles Cooper collection of mollusca.
Rev. W. H. Webster: Large collection of mollusca.
Mr. C. E. Clarke: Large collection of N.Z. Insects.
Executors Mr. W. M. Cole: Stone and Bronze Age Artifacts.

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- Miss Webster and Mr. G. F. Webster: Water-colour drawings of the Solomon Islands.
- 1930 Mr. John Kenderdine: Large collection of books and pamphlets, including rare early New Zealand works. Mr. H. E. Vaile: A large collection of Maori implements and greenstone ornaments. Mr. Moss Davis: Selected Maori exhibits; also porcelain and ivory. Mr. L. J. Matthews: Two specimens of Moa eggs. Dr. L. Cockayne: Large collection of N.Z. plants.
- 1931 Sir Cecil Leys and Mrs. Selwyn Upton: Valuable Maori antiquities: additions to the Dr. T. W. Leys collection. Mrs. S. J. Lushington: Collection of Silver and Sheffield Plate. Mrs. A. C. Lennard: Collection of English porcelain.
- 1932 Mr. H. S. Dadley: Large and valuable collection of Oriental Arts. Mr. Moss Davis: British Gold and Silver Coins and European Ivories and Bronzes. Hon. Sir James Parr: Gold and Silver Mementoes of public events in New Zealand, and case for their display.
- 1933 Vaile Collection: Additional gift of many valuable Maori antiquities. Mr. W. Goodfellow: Extensive ethnographical collection from Northern Melanesia.
- 1934 Miss Eleanor Brown and Mrs. Geo. Brownlee: Collection of heirlooms of the Ngati-toa and Ngati-awa Tribes. Messrs. R. B. & G. Matthews: The H.B. Matthews Herbarium.
- 1935 Mr. F. Crossley Mappin: Maori Specimens, including hand-somely carved sternpost.
- The Admiralty: Model of H.M.S. New Zealand.
- 1936 Captain G. Humphreys-Davies: Large and valuable collection of Chinese pottery figures. Mrs. T. G. Russell: 235 volumes of chemical and physical works from the library of her father, the late Professor Brown. Mr. E. Earle Vaile: Valuable Maori hei-tiki and Rapa Island stone artifacts. The Estate of the late H. E. Vaile: Maori and Polynesian ethnographical collection; carvings and ornaments.
- 1937 Mr. E. Earle Vaile: Collection of ethnographical specimens and six Italian bronzes. Sir Algernon Thomas: Library of scientific books and papers.
- 1938 Mr. E. Earle Vaile: Gift of many early New Zealand books and journals. Mr. J. R. le B. Tomlin: Gift of valuable early editions of natural history works. Mr. F. Crossley Mappin: Early Chinese Pottery and Bronzes.

GIFTS TO THE Library and Museum.

LIBRARY.

PERIODICALS.

New Zealand Parliamentary Reports: Hansard, 1938; Monthly Abstract of Statistics, 1938; New Zealand Journal of Agriculture, 1938; Year Book, 1938.
Publications of the Free Library and Art Gallery, Auckland.
Publications of the Auckland University College.
Bulletins of the Auckland Society of Arts.
Journal of the Alpine Sports Club, Auckland.
Bulletins of the New Zealand Geological Survey.
Bulletins of the Dairy Research Institute, New Zealand.
Fisheries Bulletins, The Marine Department, New Zealand.
Publications of the Cawthron Institute, Nelson.
Records of the Canterbury Museum, New Zealand.
Bulletins of the New Zealand Libraries Association, Christchurch.
Publications of the Council of Scientific and Industrial Research, Wellington.
Bulletins of the Alexander Museum, Wanganui.
New Zealand Centennial News.
The Australian Zoologist.
Proceedings of the Linnean Society of New South Wales.
Report of the Fisheries of New South Wales.
The Australian Naturalist, Sydney.
Bulletins of the New South Wales Department of Agriculture.
Records and Memoirs of the Australian Museum.
Journal of the Royal Society of New South Wales.
Bulletins and Reports of the Technological Museum, Sydney.
Proceedings of the Royal Society of Victoria.
Memoirs of the National Museum, Melbourne.
Publications of the National Herbarium of Victoria.
The Victorian Naturalist, The Field Naturalist Club of Victoria.
Publications of the Council of Scientific and Industrial Research, Melbourne.
The Publications of the Australian Inst. of Anatomical Research, Melbourne.
Proceedings of the Royal Society of Queensland.
Queensland Government Mining Journal.
Memoirs of the Queensland Museum.
Reports of the Great Barrier Reef Committee, Brisbane.
Records of the South Australian Museum.
Transactions and Proceedings of the Royal Society of South Australia.
Memoirs of the Kyancutta Museum, South Australia.
Proceedings of the Royal Society of Tasmania.
Bulletins of the Geological Survey of West Australia.
Transactions of the Fijian Society, Suva, Fiji.
Kew Bulletin.
Proceedings of the Linnean Society of London.
Bulletins of the Imperial Institute, London.

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Bulletins of the International Tin Research and Development Council,
 London.
 Publications of the Cranmore Ethnographical Museum, Chislehurst.
 Publications of the Manchester Museum.
 Proceedings and Reports of the Manchester Literary and Philosophical
 Society.
 Publications of the National Museum of Wales.
 Publications of the Conchological Society of Great Britain and Ireland.
 Journal of the Marine Biological Association, Plymouth.
 Quarterly Bulletins and Reports of the Leicester Museum and Art Gallery.
 Proceedings of the Royal Society of Edinburgh.
 Publications of the National Museum, Dublin.
 Proceedings and Reports of the Belfast Natural History and Philosophical
 Society.
 Annals of the South African Museum.
 Annals of the Transvaal Museum.
 Annals of the Durban Museum.
 Publications Fisheries Survey, Cape Town.
 Annals of the Natal Museum.
 Occasional Papers of the Rhodesian Museum.
 Records of the Indian Museum, Calcutta.
 Publications of the Colombo Museum, Ceylon.
 Bulletins of the Raffles Museum, Singapore.
 Bulletins of the Botanic Gardens, Singapore.
 Bulletins and Reports of the Valetta Museum, Malta.
 Pacific Affairs: Mr. Archey.
 Transactions of the Royal Society of Canada.
 Bulletins and Reports, Department of Mines, Canada.
 Bulletins of the Royal Ontario Museum of Archaeology.
 Bulletins of the Royal Ontario Museum of Zoology.
 Museum Art Notes, Vancouver Scientific Association.
 Quarterly Reports of the Vancouver City Museum.
 Proceedings and Transactions of the Nova Scotia Institute of Science.
 Publications of the Carnegie Institute of Washington.
 Publications of the Carnegie Institute.
 Publications of the State College of Washington.
 Publications in Oceanography: The University of Washington.
 Bulletins and Circulars, United States Department of Agriculture.
 Annual Report and Bulletins of the U.S. Bureau of Ethnology.
 Natural History and Reports, American Museum of Natural History.
 Proceedings and Bulletins of the United States National Museum.
 Memoirs, Bulletins and Occasional Papers of the Bishop Museum, Honolulu.
 Studies in Natural History, The University of Iowa.
 Annals of the New York Academy of Science.
 Botanical Papers: New York Botanical Garden.
 Publications of the American Midland Naturalist, Indiana.
 Zoological, Geological, Anthropological and Botanical Series: Field Museum
 of Natural History.
 Publications of the Pacific Geographic Society, Los Angeles.
 Publications of the Southwest Museum, Los Angeles.
 Publications of the Charleston Museum, South Carolina.
 Publications of the San Diego Society of Natural History.
 Publications of the University of California.
 Proceedings of the California Academy of Sciences.
 Marine Biology: Stanford University, California.
 Bulletins of the California State Fisheries.

Bulletins of the Wagner Free Institute of Science, Philadelphia.
 Publications of the University of Pennsylvania, Philadelphia.
 Proceedings of the Academy of Sciences, Philadelphia.
 Publications of the Morris Arboretum, Pennsylvania.
 Publications of the Buffalo Society of Natural Sciences.
 Contributions from the Gray Herbarium of Harvard University.
 Publications of the Peabody Museum of Archaeology, Harvard University.
 Bulletins, Museum of Comparative Zoology, Harvard.
 Publications of the Chicago Academy of Sciences.
 Occasional Papers, The University of Michigan.
 Journal of the Maryland Academy of Sciences.
 Revista de Ciencias, Peru.
 Annals of the Museum of Natural History, Buenos Aires.
 Publications and Bulletins of the School of Mines, Buenos Aires.
 Publications of the San Miguel Observatory, Argentine.
 Annals of the School of Mines, Brazil.
 Annuaris Observatorio Nacional de Rio de Janeiro.
 Bulletins of the Museum of Natural History, Montevideo.
 Annals of the Geological Institute of Mexico.
 The Philippine Journal of Science, Manila.
 Bulletins de la Societe Etudes Oceaniennes Tahiti.
 Bulletins L'Institut Oceanographie, Monaco.
 Bulletins of the Bureau of the Chinese Delegation, Genève.
 Publications of the Musee d'Histoire Naturelle, Paris.
 Bulletins of the Zoological Society of France, Paris.
 Bulletins of the Italian Library, Rome.
 Bulletins of the Laboratorio Zool. Gen. and Agraria, Portici, Italy.
 Publications of the Societa Toscana di Science Naturali, Pisa, Italy.
 Publications of the Zoological Inst. and Museum, Athens, Greece.
 Publications Das Museum für Volkerkunde, Basel.
 Publication of the Danish Biological Station.
 Publications of the Adviser of Norwegian Fisheries, Bergen.
 Publications of the Natural History Museum, Stockholm.
 Bulletins of the University Library, Uppsala, Sweden.
 Publications of Gothenburg Ethnographical Museum, Sweden.
 Proceedings of the Royal Physiographic Society at Lund.
 Proceedings of the Rijks Ethnograph Museum, Leiden, Holland.
 Bulletins and Memoirs of the Royal Museum of Nat. History, Bruxelles.
 Bulletins du Jardin Botanique de l'Etat, Bruxelles.
 Annales de la Societe Royal Zoologique de Belgique.
 Transactions of the Zoological Museum, Berlin.
 Bulletins of the Deutsche Entomologisches Institut, Berlin.
 Publications of the Zoologischen Staatsinstitut Museum, Hamburg.
 Transactions of the Museum für Volkerkunde, Hamburg.
 Transactions of the Zoologische Staats-Sammlung, München.
 Publications of the Senckenbergischen Bibliothek, Frankfurt.
 Publications of the Naturhistorisches Museum, Vienna.
 Annales of the National Museum, Budapest, Hungary.
 Memoirs La Societe Zoologique Tchecoslovaque De Prague.
 Comptes Rendus de l'Academie des Sciences de l'U.S.S.R., Moscow.
 Transactions of the Institute of Marine Fisheries, Moscow.
 Problems of Soviet Geology, Central Geological Library, Leningrad.
 Publications of the Warsaw Zoological Museum.
 Publications of the Society for International Cultural Relations, Tokyo.
 Publications of the Kyoto Imperial University, Japan.

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Bulletins of The Saito Ho-on Kai Museum, Sendai, Japan.
Publications of the Geological Survey of China.
Bulletins of the National Library of Peiping, China.
Bulletins of the Science Society of China, Nanking.
Bulletins of the Metropolitan Library, Peking.
Publications of the Bureau of Commerce, Batavia, Java.

REPORTS.

Dominion Laboratory.
Auckland Zoological Society.
Auckland Acclimatisation Society.
The Philosophical Institute of Canterbury.
The Canterbury Museum.
Wanganui Public Museum.
Otago Public Museum.
Fisheries Department, Wellington.
New Zealand Council for Educational Research.
Department of Scientific and Industrial Research, Wellington.
Hawkes Bay Branch of the Roy. Soc. of New Zealand.
Wellington Philosophical Society.
The Australian Museum.
Haslemere Educational Museum.
Royal Scottish Museum, Edinburgh.
Public Libraries and Museum, Derby.
Yorkshire Philosophical Society.
Public Library and Museum, Victoria.
Free Public Museums, Liverpool.
Mappin Art Gallery, Sheffield.
Stoke-on-Trent Museum.
Queen Victoria Museum, Launceston, Tasmania.
Belfast Museum and Art Gallery.
National Museum of Ireland, Dublin.
John Crerar Library, U.S.A.
The Philadelphia Museum.
The American Museum of Natural History, New York.
The Carnegie Museum, Pittsburgh.
The South African Museum.
The Rhodesian Museum.
National Museum of Southern Rhodesia.
The Fisheries and Marine Biological Survey, Pretoria.
The Egypt Exploration Society.
National History Museum, Geneva.
The Botanic Garden, Singapore.
National Research Council of Japan.
The Marine Biological Association of China, Nanking.

Books have been presented by Mr. J. le B. Tomlin, Mr. E. Earle Vaile, Patea County Council, Rev. Father Lavelle, Mr. H. I. Harding, Mrs. S. E. Rabone, Mr. C. R. Ford, Mr. T. Pybus, Sir Albert Ellis, Mrs. E. L'E. Barton, Mr. E. G. Cowell, Mrs. Alice Weston, Mr. Herbert Maunsell, Mrs. J. Kenderdine, Mr. L. W. Alexander, and Mr. C. J. O'Keeffe.

ACCESSIONS, 1938-39.

- Dr. A. A. Abbie: Painted wooden dancing mask from New Ireland.
 Miss Pat Alcock: Chameleon from Jamaica.
 Mr. M. Aldis: Three early N.Z. tokens and Victorian penny.
 Mr. L. W. Alexander: Genealogy of the Cromwell Family.
 Anonymous: Shining Cuckoo; Yellowhammer; Malay Kris; six fragments of clay figures from Toltec Ruins, Mexico; Whaling harpoon head.
 Mr. F. L. Armitage: Extensive collection of lantern-slides illustrating pathology and natural history.
 Mr. Arvidson: Two species of edible berry-plants.
 Mr. A. J. Auburn: Peripatus from Ruatiti.
 Miss M. A. Bagnall: Tasmanian wasps from Herne Bay.
 Miss O. K. Baker: Old *piupiu* from Taranaki.
 Mr. G. T. Barker: Ethnographical specimens from Fiji and Rotuma.
 Mr. T. H. Barrett: Geological specimens, fossils and ethnographical specimens.
 Professor J. A. Bartrum: Obsidian knife from Kawhia.
 Miss P. M. Bell: Spider.
 Mr. J. E. Bellchamber: Case of mounted Australian birds.
 Mr. Biss: Giant petrel from Muriwai.
 Mr. Wm. Blomfield: Carved wooden figure.
 Late Rev. H. Prentice Bralsford: Suit of Gilbertese armour.
 Mr. W. J. Brambley: Ethnographical specimens from Wattle Bay: deposited.
 Master W. Browne: Spotted shag; white-capped mollyhawk. Pumice top and stone anchor from Piha: deposited.
 Mrs. J. E. J. Buchanan: Melanesian spears.
 Major G. A. Buddle: Bones of two specimens of a small moa from Doubtless Bay.
 Mrs. Burgin: Collection of African spears.
 Mr. T. Charter: Maori stone sinker and horn snuff box, Austrian water-bottle and leather wallets.
 Mr. S. F. Carter: Tui, Maori kilt from Bay of Plenty and newspapers and facsimiles. Carved figure from Tokomaru Bay: deposited.
 Miss M. Carter: Maori feather kit and photographs of Chatham Island Maoris.
 Mrs. W. Carter: Stick insect from Nihotupu.
 Mrs. S. P. Church: Ivory carving, Chinese.
 Mr. T. Clarke: Mineral specimens from Queensland.
 Miss Clifford: River canoe prow and two Australian weapons: deposited.
 Mr. B. W. Collins: Four stone adzes from New Guinea.
 Captain W. F. Collins: Aeneolithic pottery vases from Kansu; jade, silver and bronze, Chinese.
 Old Colonists' Museum: Taiaha and kaitaka cloak.
 The Cousins Family: Model of the Thorne roadster.
 Mr. M. J. Coyle: Three stone adzes from Mt. Roskill.
 Miss L. M. Cranwell: Stone squid-lure, stone lamp from Hawaii, fruits of sausage tree from Hawaii.
 Mr. Craig: Small case of foreign birds.
 Master Donald Davy: Cannon ball from Mt. Victoria.
 Major Day: Twenty-four Melanesian Mission stamps.
 Mr. R. K. Dell: Stone adze and sinker from Huia.
 Mr. C. Denize: Paddle from Waikato: deposited.
 Mrs. J. E. Dicketts: Ornament of plaited and dyed hair.
 Mr. T. J. Dobbing: Metal teapot, wrought iron scroll bedstead, brass kerosene lamp and glass flagons.

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- Dr. Grace de Courcy: Small amulet from Mecca.
 Mr. N. R. Dorset: Spider.
 Mr. F. E. Drake: Shining cuckoo from Whangarei.
 Miss Betty Dromgool: Sacred kingfisher.
 Mrs. D. R. Eden: Dancing dress from Samoa.
 Mr. R. Efford: North Island kiwi.
 Sir Albert Ellis, C.M.G.: Collection of phosphate and carbonate rocks from Nauru Island.
 Mr. A. J. Ellmore: Large piece of quartz from Thames.
 Mr. J. Emtage: Stone adzes from Motiti Island and Kaikora.
 Sergeant Fernleigh: Adze blade from One Tree Hill and regimental buttons and Boer War mail bag.
 Mr. C. W. Firth: Collection of geological specimens.
 Mr. C. A. Fleming: Starling; obsidian knife wrapped in human hair from Aorangi Island.
 Mr. R. Fletcher: Map of Pacific used as a chart by Count von Luckner.
 Mr. C. R. Ford: Early Wedgwood jasper-ware jar and plate of Bristol delit.
 Mr. E. French: Spider from Avondale.
 Mr. D. G. Gallaher: Bittern from Mission Bay.
 Mr. W. E. Goffe: Bone fragment of club from Chatham Islands: deposited.
 Mr. G. Graham: Palm leaf kit from Cook Islands.
 Miss Bertha Guthrie: Set of fans and old jewellery.
 Mr. C. Hall: Larva of *Sarapogon viduus*.
 Mr. L. Halliday: Fern-root beater from Piha.
 Mr. H. Hamilton: Fragment of Korowai cloak.
 Mr. W. Hammond: Land snail from Gold Coast, W. Africa; impressions of leaves from Thames.
 Mr. L. Hardgreaves: Giant weta from Little Barrier Island.
 Mr. H. I. Harding: Collection of specimens from China and Chinese Turkistan; adze from Tahiti and wooden 'Umete from Austral Island.
 Archdeacon Hawkins: *Hinaki* and fine example of Solomon Island coconut shell money.
 Hawke's Bay Museum: Two wooden implements from Ormondville.
 Mrs. C. H. Heald: End of Egyptian sarcophagus: deposited.
 Mr. R. Herbert: Footrest for *ko* from Takahue.
 Mrs. Holt: Brown gecko.
 Mr. S. M. Hovell: Long-bladed spade from Waihi Beach; large block of obsidian from Mayor Island.
 Mr. F. C. Huntley: N.Z. owl from Waimauku.
 Mr. G. R. Ibbetson: Bullet from Balacava.
 Mr. R. Idoine: Whale's tooth decorated with Scrimshaw work: deposited.
 Mr. and Mrs. A. Inia: Nine wooden spears from Roto-iti.
 Mr. L. S. Jackson, Junr.: Wooden food bowl from Taranaki.
 Mr. P. F. Jennings: Wooden bowl from Opotiki.
 Miss K. Keesing: Collection including Victorian inlaid cabinet, vases, ivory figures; seal of the Church of the Province of N.Z.
 Mrs. J. Kenderdine: Collection of photographs of Maori chiefs; geological specimen.
 Mrs. W. King: Young bittern.
 Lady Kinsey: Collection of coins, seals and intaglios; pearl coated leaden images of Buddha in fresh-water mussel.
 Messrs. A. Kohn, Ltd.: Two examples of Lalique glass.
 Mr. E. S. Kohn: Watch guarantees of J. Kennedy, Dundee, 1872, and David S. Kerr, Dundee, 1869.
 Mrs. E. F. Lavers: Pottery jug; glass tear bottle from Cyprus; Phoenician glass bangle and geometric cup.

- Mr. C. Lambie: Centipede from Dargaville.
 Mr. W. La Roche: Pair of polecat ferrets; large specimen of kauri gum.
 Master Norman Layther: Perforated fishing sinker from Dargaville: deposited.
 Mrs. Lemon: Screw skate from Germany.
 Mr. F. C. Litchfield: Dresden flower vase.
 Miss C. G. Lord: Silver ear-scoop.
 Mr. W. B. Lord: Stone flake knife from Opotiki
 Mr. N. O. Lucas: Brazilian scarlet tanager.
 Mr. A. G. Lunn: Chinese bronze horse bit, Han Period
 Miss Lupton: Two swords.
 Mrs. E. A. MacLeod: Cribbage-board made about 1840.
 Mr. Henry Maabe: Two putty nuts and two betel nuts.
 Mr. Wm. Mabey: Large piece of obsidian from Great Barrier Island.
 Mrs. Mackesy: Two swords in scabbards.
 Mrs. D. Makgill: Ethnographical specimens and box for needles painted in oils.
 Mr. W. Mantach: Scottish snuff box and telescope.
 Mr. F. Crossley Mappin: Red and blue macaw; ancient Chinese pottery and bronze vases and figures.
 Mr. H. G. Medhurst: Bayonet found at Point England.
 Mr. Tom Moki, Junr.: Six Maori stone adzes from Kawhia.
 Mr. F. C. Moore: Two N.Z. tokens
 Mrs W. Alex. Moore: Greenstone fish-hook, Italian glass vase.
 Mr. Moore-Jones: Giraffe weevil.
 Mr. F. J. Moresby: Unfinished stone adze from Waiheke Island.
 Miss Noelline Morris: Gannet from Orewa Beach.
 Miss M. McCarthy: Skeleton of dolphin from Westmere.
 Mr. McClisky: Brown gecko.
 Mr. C. McCready: Skull of fossil fur-seal from Ohope.
 Mr. A. McCosh Clarke: Forty-eight sheets of native ferns.
 Mrs. E. McDowell: Two plaited kits from Colac Bay, Southland.
 Rev. J. D. McFarlane: Air photograph of the Vaucelles area.
 Mr. J. McIntosh: Lance and whaling gear.
 Captain R. McKenzie Cliffe: Native mat from Wallis Island.
 Mr. V. C. North: *Scutigera smithii* from Remuera.
 Mr. H. Ogden: Stone adze from Gisborne.
 Mrs. G. Pennell: Part of Zeppelin brought down in Caffey.
 Mr. H. T. Pease: Snider rifle bayonet and stone adze from Tatuanui.
 Mrs. E. Pierard: Niue Islander skull; piece of tapa.
 Mr. J. A. Pond: Two old Auckland Museum notices.
 Mr. Norman Potts: Stone flake knives from Birdlings Flat.
 Mr. A. W. B. Powell: Arrow heads and flints from South America.
 Mr. B. W. Price: Partial albino of skylark from Kaitaia.
 Mr. A. T. Pycroft: Tuatara lizard
 Mrs Quinn: Maori plaited sling-bands from Patea and plaited mat from Wanganui.
 Mr. C. E. Rackham: Branch of paper mulberry with inner bark teased out.
 Railway Department: Kiwi from Rotorua.
 Mr. J. Raven: Maori rock carving.
 Mr. G. Read: Very old camera with two plate-holders and two coins.
 Mrs. T. T. Redman: Centipede from Orakei.
 Mr. W. R. Reyburn: Print of French Chateau.
 Mr. W. Revell Reynolds: Collection of stone adzes.
 Mr. J. D. Richardson: Collection of lantern-slides.
 Sir Carrick Robertson: Fighting staff from New Britain.

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Mr. H. C. Robson: Richly carved pearl-oyster shell from China: deposited.
 Mr. R. Rose: Two Maori skulls from Waiuku: deposited.
 Mr. R. Ross: Piece of puriri tree attacked by kakas.
 Mr. John Rowell: War medals, coins and copies of old newspapers.
 Mr. W. E. Russell: Ethnographical specimens from Fiji, Rotuma and Tonga.
 Miss O. Rutherford: Yellowhammer from Panmure.
 Mr. G. O. K. Sainsbury: Rare moss from Castle Hill, Canterbury.
 Sanford's Ltd.: Ghost shark.
 Mr. H. Scott: Native war helmet and old sword from Atiu, Cook Islands.
 Miss I. M. Shand: Ethnographical specimens from Chatham Islands.
 Captain H. W. Smith: Red fox from England.
 Mr. K. A. Snedden: Black stilt.
 Mr. C. L. Strong: Penny stamped for identity disc.
 Mr. W. D. Squire: Early type of sewing machine.
 Mr. F. G. Stenning: Stone hammer from Three Kings.
 Hon. E. G. Theodore: Ore specimen from Loloma Mine, Fiji.
 Miss M. Thomas: Puriri moth.
 Captain N. R. W. Thomas: Automatic pistol.
 Mr. W. R. Thomas: Suit of Japanese armour and Maori cape; stone artifact from Matiatia.
 Mr. K. Thompson: Peripatus.
 Mr. E. Trappitt: Shot flask.
 Mr. S. D. Trotter: Green gecko.
 Mr. D. Twiss: Spider.
 Commander Allan Varian: War documents and orders.
 Mrs. Arthur Waller: Wooden earthworking implement from South Kaipara Head.
 Mr. K. Howden Webb: Postcard made of biscuit box from Gallipoli: deposited.
 Mr. H. Wellman: Native raincoat from New Guinea.
 Mrs. Alice Weston: Pair of pistols, ethnographical articles and paintings of ships.
 Mr. H. N. Wheeler: Large triangular stone from old pa site at Tangaihi.
 Miss E. Wilkinson: Three wooden clubs from Fiji.
 Mr. M. A. White: Three pieces of old glass from Scotland.
 Dr. T. Wi Repa: Deformed specimen of sea-urchin.
 Mr. W. C. Withers: Box of mounted butterflies and beetles.
 Mrs. R. Wright: Case of mounted N.Z. birds.
 Zoological Park: Malayan lizard; stump-tailed lizard; Himalayan monal; white-fronted goose.

Members of the Auckland Institute.

(Members are requested to advise the Secretary of any change
of Address)

HONORARY LIFE MEMBER.

Sir Cecil Leys.

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Lunn, A. G.

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Upton, P.

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Wilson, Martyn.
Wilson, Mrs. R. M.
Wilson, W. R.
Winstone, F. M.
Winstone, W. P.
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Worley, R. P. M.Sc.
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Wynyard, M. H.

Yates, E.
Yates, E. W.

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Caradus, W.
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Carr, Austin.
Caughy, J. Marsden.
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Crowther, W. J.
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Davis, The Hon Eliot R.,
M.L.C.
Dawson, Bertram.

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- Dawson, Lieut.-Col. T. H.
C.M.G., C.B.E.
Dell, R. K.
Delph, L. W., M.C., M.A.
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Dingley, G.
Director, Rev. Bro. (Sacred
Heart College).
Dix, H. R.
Doust, Mrs. E.
Duthie, A. K.
Duvall, F. C.

Earl, F., K.C.
Easdown, Thomas.
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Elliffe, J. M.
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Evans, D. M.

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Finlay, G. P.
Firth, C. W., M.Sc., Assoc. M.
Inst. C.E.
Firth, W. H. B.
Fisher, F. S.
Fisher, V. F.
Foote, W. J.
Ford, C. R., F.R.I.B.A.
Forder, Professor H. G.
Fowlds, W. F., M.C.
Fraser, L. F.
Frater, James H.
Frater, J. W.
Frost, E. T.

Gatty, H.
Gaze, N. S.
Geddes, Miss M. A.
Gee, W.
George, H. J. C.
Gilfillan, H.
Gillies, C. L.
Gillies, A. W.
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Gilmour, Dr.
Gleeson, N.
Glasse, A. O., M.C.
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Goldstein, Dr. H. M., M.C.
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Griffin, K. M., M.Sc.
Gross, R. O., C.M.G., A.R.B.S.
Gunson, Sir James, C.M.G.,
C.B.E.
Gwynne, Dr. F. J.
Hall, T. A. Chappe.
Hanna, Mrs. N.
Harbutt, S. J.
Harrison, R. A.
Harrison-Smith, L.
Harvey, A.
Hay, Douglas.
Heap, W. A.
Hellaby, J. A. B.
Hellaby, John.
Hemingway, W. H.
Henley, J. C.
Henning, G.
Herdman, Hon. Sir Alexander.
Heskeith, H. R.
Hill, J. C.
Hills, F. M.
Hogwood, L.
Holderness, D.
Holloway, Miss M.
Holmden, Dr. H. F.
Hooker, O. L.
Hooper, A. H.
Horne, P. D., B.Sc.
Horne, W. S.
Horsley, A. J.
Horton, E.
Hounsell, W. K., M.P.S.
Hudson, Dr. J. S.
Hume, Alan.
Humphreys, A.
Humphreys-Davies, Capt. G.
Hutchinson, Major G. R.,
O.B.E.

Jenkins, C. H.
Johns, A. I.
Johnston, J. B.
Johnstone, A. H., K.C.
Julian, T. G.

Kalaugher, J. P.
Kealy, J. W.
Kelliher, H. J.
Kenderdine, Mrs. J.
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Kibblewhite, Miss E. F.

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King, R.
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Kingston, J. J.
Kirker, Dr. Alex. H.
Kirker, H. R., LL.B.
Knight, Professor C. R., M.A.,
B.Arch., A.R.I.B.A., A.N.Z.I.A.
Kohn, E. S.

Lamb, Dr. O. Fyffe.
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Lavelle, Rev. Michael.
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Lee, M. G.
Leonard, F. H.
LeRoy, E.
Leyland, S. H.
Lisle, Rev. F. de
Littlejohn, C. M., M.Sc.
Lomas, R. G.
Louisson, M. M.
Lowe, James.
Lusk, H. B., M.A.

Macdonald, Mrs. W., M.A.
Macfarlane, J. B.
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Mackenzie, Kenneth, M.D.,
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Macky, T. H.
MacMurray, Ven. Archdeacon,
M.A.
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McKenzie, J. A.
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Moore, Miss L. B., M.Sc.

Murdoch, C. G.
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Oram, C. W.
O'Ryan, Wm.

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Priestley, M. E.
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Reed, Hon. Sir John Ranken,
C.B.E., V.D.
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Ryalls, G.

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Sawer, Lieut.-Col. E. R.,
O.B.E., M.A., B.Sc.

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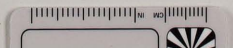
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Seaman, A. M., F.P.A.,
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Searle, E. J.
Segar, Professor H. W., M.A.
F.R.S.N.Z.
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Tomlinson, C.
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Tunks, C. J.
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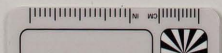
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Waddell, J.
Wade, Dr. Wallace.
Walker, Miss A.
Walker, A. Greville, Assoc. M.
Inst., C.E.
Walker, J. M.
Wallace, T. F.
Wallace, W.
Walsh, M. J.
Ward, R.
Ward, R. H.
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Watt, A. H.
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Wilson, W.
Wilson, W. A.
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Winstone, G.
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D.Sc.
Wright, Hugh.
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Wright, R.

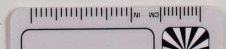
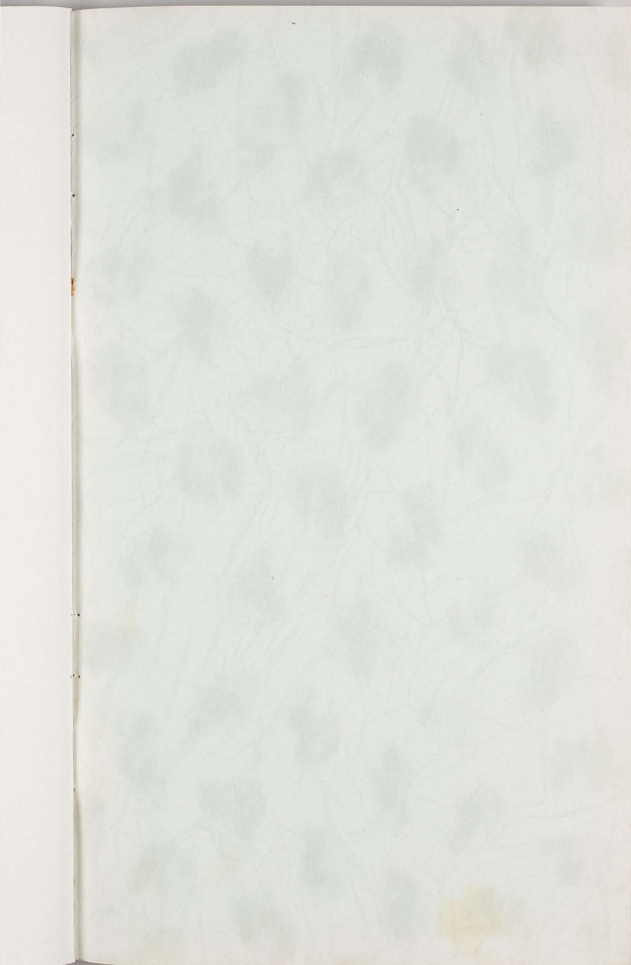
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